

## Bibliographic Fields

## Document Identity

(19)□□□□□

□□□□□□□□□□

(12)□□□□□□

□□□□□□□□□□

(11)□□□□□□

□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□

(43)□□□□□

□□□□□□□□□□□□□□□□□□□□□□

(19) [Publication Office]

Japan Patent Office (JP)

(12) [Kind of Document]

Unexamined Patent Publication (A)

(11) [Publication Number of Unexamined Application]

Japan Unexamined Patent Publication 2002 - 222479 (P2002 - 222479A )

(43) [Publication Date of Unexamined Application]

Heisei 14 year August 9 day (2002.8 . 9)

## Public Availability

(43)□□□□□

□□□□□□□□□□□□□□□□□□□□□□

(43) [Publication Date of Unexamined Application]

Heisei 14 year August 9 day (2002.8 . 9)

## Technical

(54)□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□

(54) [Title of Invention]

**DEVICE WHICH DOES WEIGHING OR INSPECTION FOR GOODS**

(51)□□□□□□□□7□□

G08C 17/00

G06F 13/00 630

G08B 25/08

25/10

H04M 11/00 301

H04Q 9/00 311

321

□FI□

G06F 13/00 630 A

G08B 25/08 Z

25/10 D

H04M 11/00 301

H04Q 9/00 311 H

321 E

G08C 17/00 Z

□□□□□□□□

□

(51) [International Patent Classification, 7th Edition]

G08C 17/00

G06F 13/00 630

G08B 25/08

25/10

H04M 11/00 301

H04Q 9/00 31 1

321

[FI]

G06F 13/00 630 A

G08B 25/08 Z

25/10 D

H04M 11/00 301

H04Q 9/00 31 1 H

321 E

G08C 17/00 Z

[Number of Claims]

1

**[Form of Application]**

OL

[Number of Pages in Document]

6

[Theme Code (For Reference)]

2 F0735C0875K0485K101

**[F Term (For Reference)]**

2 F073 AA40 AB01 AB02 BB01 BB20 BC 02 CC08 DD06  
GG01 GG08 5C087 AA02 AA03 AA10 AA23 AA32 BB12  
BB20 BB74 DD08 DD39 EE12 EE13 EE14 FF 01 FF 02 FF  
16 FF 19 FF 23 GG67 5K048 AA06 BA 21 DB01 DC01  
DC07 EB08 EB10 EB12 GB 08 HA01 HA02 HA03 5K101  
KK02 KK12 LL01 LL11

[Request for Examination]

Unrequested

(21) [Application Number]

Japan Patent Application 2001 - 16348 (P2001 - 16348 )

(22) [Application Date]

Heisei 13 year January 24 day (2001.1 . 24)

(71) [Applicant]

[Identification Number]

000000572

[Name]

**ANRITSU CORPORATION**

[Address]

Tokyo Prefecture Minato-ku south linen cloth 5-Chome 10  
turn 27

(72) [Inventor]

[Name]

## Takada Yoshimitsu

[Address]

□□□□□□□□□□□□□□□□  
□□□□□□□□

(72)□□□□□

□□□□

□□ □□

□□□□□□□□

□□□□□□□□□□□□□□□□  
□□□□□□□□

#### Agents

(74)□□□□□

□□□□□□

□□□□□□□□

□□□□□

□□□□□□□□

□□ □□

#### Abstract

(57)□□□□

□□□□

□□□□□□□□□□□□□□□□  
□□□□□□□□□□□□□□□□  
□□□□□□□□□□□□□□□□  
□

□□□□□□

□□□□□□□□□□□□□□□□20□  
□□□□□□□□□□□□□□□□11□□□□  
□□□□□□□□□□□□□□□□22□□□□  
□□□□□□□□□□□□□□□□□□□□  
□□□□□23a□□□□□□□□□23a□□□□  
□□□□□□□□□□□□□□□□□□□□  
□□□□□□□□□□□□□□□□□□□□  
□□□□□□□□□□□□□□□□□□□□  
□□□□□□□□□□□□□□□□22□□□□□□  
□□□11□□□□□□□□□□□□□□□□□□  
23c□□□□□□□□□□□□□□□□□□□□  
□□□□□□□□□□□□□□□□□□□□□□  
□□□□□□□□□□□□□□□□□□□□□□  
□□□□□□□□

Tokyo Prefecture Minato-ku south linen cloth 5 Chome 10  
turn 27 inside of Anritsu Corporation

(72) [Inventor]

[Name]

Nozaki Takatsugu

[Address]

Tokyo Prefecture Minato-ku south linen cloth 5 Chome 10  
turn 27 inside of Anritsu Corporation

(74) [Attorney(s) Representing All Applicants]

[Identification Number]

100079337

[Patent Attorney]

[Name]

Hayakawa Seishi

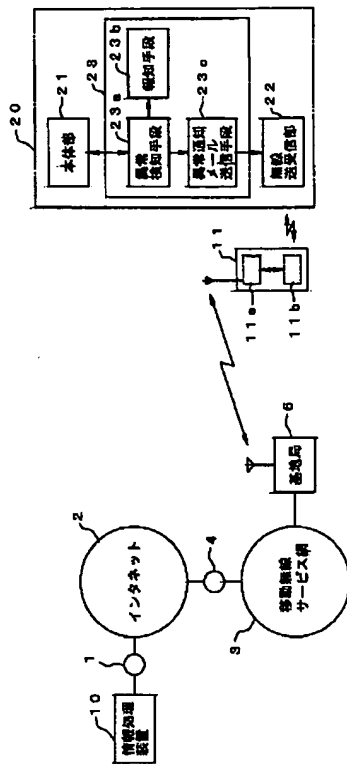
(57) [Abstract]

[Problems to be Solved by the Invention]

It is not necessary to increase new wired telephone line,  
accurately try to be able to notify operation fault without  
giving adverse effect to job of washing and disinfection.

[Means to Solve the Problems]

As for device 20 which does weighing or inspection for  
goods, when in internal, operation fault is detected with fault  
detection means 23a and fault detection means 23a which  
detect fault of operation of wireless transceiver 22 and the  
weighing which between portable wireless terminal 11 do  
communication with wireless operation of inspection,  
forming electronic mail information for fault occurrence  
notification of predetermined mail address addressee, We  
have possessed fault notification mail signal transmission  
means 23c which is transmitted to portable wireless terminal  
11 from wireless transceiver 22, we notify fault of weighing  
operation or inspection operation, to information processing  
device 10 of predetermined mail address which is connected to  
Internet with electronic mail.

[illegible]

□□□□1□

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

☐ ☐ ☐

□□□□□□□□□□□□□□□□□□□□□□□□  
□□□□□□□□□(23a)□□

Figure 1: Schematic representation of the experimental design. The figure shows a grid of 10 rows and 20 columns of squares. The first row is labeled 'a)' and the second row is labeled 'b)'. The grid is divided into four quadrants by a vertical line and a horizontal line. The top-left quadrant (rows 1-5, columns 1-10) contains squares with numbers 1-5. The top-right quadrant (rows 1-5, columns 11-20) contains squares with numbers 6-10. The bottom-left quadrant (rows 6-10, columns 1-10) contains squares with numbers 11-15. The bottom-right quadrant (rows 6-10, columns 11-20) contains squares with numbers 16-20. The numbers are arranged in a sequence that suggests a specific experimental design.

(23c)



**[Claim(s)]**

[Claim 1]

In device which does weighing or inspection for goods,

fault detection means which detects fault of operation of  
aforementioned weighing or operation of inspection (23 a )  
with,

first wireless transceiver in order between base station of mobile radio service network to do communication with radio wave (11 a ) with it possesses second wireless transceiver (11 b ) in order to do communication with other equipment and wireless of vicinity and through theaforementioned second wireless transceiver, vis-a-vis portable wireless terminal (11) whose relay of information is possible aforementioned first wireless transceiver and between second wireless transceiver ,wireless transceiver where communication is possible (22) with.

When operation fault is detected with aforementioned fault detection means, forming electronic mail information for fault occurrence notification of predetermined mail address addressee, in internal providing fault notification mail signal transmission means (23 c) which it transmits to the aforementioned portable wireless terminal from

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□(10)□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□

### Specification

□□□□□□□□□□

□0001□

□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□

□0002□

□□□□□□□□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□

□0003□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□

□0004□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□

□0005□

□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□

□0006□

□□□□□□□□□□□□□□□□□□

forementioned wireless transceiver,

device□ which does weighing or inspection for goods whereit was connected fault of weighing operation or inspection operation,by Internet and it tried to be able to notify to information processing device (10) whichcorresponds to aforementioned predetermined mail address feature makes

[Description of the Invention]

[0001]

[Technological Field of Invention]

this invention operation fault of device which does weighing or theinspection for goods accurately and regards technology in orderquickly to notify.

[0002]

[Prior Art]

With manufacturing line of for example foods and beverages, while transporting foods and beverages which isproduced you inspect weight, and you inspect mixture of the foreign matter presence or absence or other remove poor goods and ship.

[0003]

This way with weighing of goods and metering device and inspection equipment whichinspect in continuous, fault occurring in sensor etc for sensor□ foreign matter detection for transport mechanism□ weight detection of goods, amount of production greatly is apossibility of decreasing with manufacturing line over lengthy.

[0004]

Because of this, with conventional metering device and inspection equipment, detecting theoccurrence of operation fault, it reported to worker of the periphery with sound and lamp, person who becomes aware in thisinformation had coped with operation fault of device.

[0005]

[Problems to be Solved by the Invention]

But, this way when person of periphery which becomes aware insound and lamp which inform about occurrence of operation fault copes with operation fault, person who does maintenance service of device specially knows history of fault occurrence of device completely, it not to be possible , menthene Solanum melongena L. (eggplant ) is done precisely, there is a problem that it is notpossible .

[0006]

Because of this, oral, person who becomes aware in

□0007□

□0008□

□0009□

□0010□

□0011□

Figure 1 shows a 10x20 grid of squares. The grid is divided into two regions by a vertical line at column 11. The left region (columns 1-10) is labeled (23a) and the right region (columns 12-20) is labeled (11a). The bottom row is labeled 2.

[0007]

[0008]

[0009]

[0010]

[0011]

In order to achieving aforementioned object, as for device which does weighing or inspection for goods of this invention, fault detection means which detects fault of operation of aforementioned weighing or operation of inspection in device which does weighing or the inspection for goods, (23 a) with, first wireless transceiver in order between base station of mobile radio service network to do communication with radio wave (11 a) with it possesses second wireless transceiver (11



□□□□□□□□□5□□□□□□□□□□

□0017□

□□□□□□□□11□□□□□□□□□□□□  
 □□□PHS□□□□□□□5□□□□□□□□  
 □□□□□□□□□□□□□□□□□3□□  
 □□□□□□□□□□□□□4□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □5□□□□□□□□□□□□□□□□3□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□

□0018□

□□□□□□□□□11□□□□□□□5□□□□  
 □□□□□□□□□□□□□□□□1□□□□  
 □□□11a□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□2□□□□□□  
 □□11b□□□□□□□□□□

□0019□

□2□□□□□□□□11b□□□□□□□□□□  
 □□5□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□IrDA□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 (Bluetooth)□□□□□□□□□□□□□□□□  
 □□

□0020□

□□□□□□□□5□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□11  
 □□□□□5□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 5□□□□□□□□□□□□□□□□□□□□□□

□0021□

□□□□□□20□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□

□0022□

□□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□□□

wireless terminal 11 to mobile radio service network 3 is connected.

[0017]

As portable wireless terminal 11, as before inscribed, with mobile terminal and the PHS, between base station 5 it does communication with radio wave, position registration designates as mobile radio service network 3, responding to receive from base station 4, to do communication of audio or data between call origin, in addition, transmitting signal of call to base station 5, From mobile radio service network 3 communication of audio or data is done between the accessible terminal.

[0018]

To other than first wireless transceiver 11a in order between base station 5 to do communication with radio wave, second wireless transceiver 11b in order between other equipment of the vicinity to do communication with wireless is provided in this portable wireless terminal 11.

[0019]

second wireless transceiver 11b has utilized radio wave where radio wave and frequency band which are used for communication of infrared light or base station 5 differ.

When infrared light is utilized, those etc which correspond to standard of for example IrDA are used, in addition, when radio wave is utilized, those etc which correspond to standard of for example Bluetooth (Bluetooth) are used.

[0020]

This way portable wireless terminal 11 where communication of base station 5 and communication between other equipment of vicinity are possible transmits information from base station 5 to other equipment of vicinity, has possessed the relay mode which transmits information from other equipment of the vicinity to base station 5.

[0021]

weighing inspection equipment 20 while inspection of presence or absence of weighing or foreign matter for foods and beverages or other goods, transporting goods is something which it does in the automatic.

[0022]

Here, it supports conveyer for weighing with weighing apparatus as device which does weighing of goods, metering device and goods of the conveying type which detects weight of goods which is carried on conveyer from output of weighing apparatus dispersing supplying to the weighing part of plural, it detects respective weight, There is a combination

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□

□0023□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 X□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□X□□□□□□□□□□□□□□

□0024□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□

□0025□

□□□□□□□20□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□21□□□□□□□□□22□□  
 □□□□23□□□□□□□□□□

□0026□

□□□□□22□□□□□□□□□11□□2  
 □□□□□□11b□□□□□□□□□□  
 □□(IrDA□)□□□□□□(□□□□□□  
 □□)□□□□□2□□□□□□□11b□□□  
 □□□□□□□□□□

□0027□

□□□23□□□□□□21□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□23a□  
 □□□□□□23a□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□23b□□□□□□□23a□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□22□□□□□□□□□□□11□□□□  
 □□□□□□□□□□23c□□□□□□□□  
 □□□

metering device which is carried out to succeeding line etc with goods where combined weight is inside specified range as the bundle.

[0023]

In addition, metering device of conveying type which was inscribed is unified as device which inspects weight, detects there is a weight inspection equipment which inspects whether or not which has weight of goods where there is a weight of goods and some which inspect presence or absence of mixture of foreign matter as device which does inspection for the goods, before inside tolerance.

In addition, passing goods in magnetic field as device which inspects foreign matter, there is a X-ray foreign matter inspection equipment etc which inside goods seeks perspective image making use of metal detector, and X-ray which detects change of magnetic field with foreign matter of metal inside the goods detects foreign matter with pattern recognition of perspective image.

[0024]

device which does weighing or inspection for goods of the this invention, any one □ of metering device and inspection equipment which were inscribed or it is good even with system which combines these to option.

[0025]

While weighing and inspection for goods, transporting the goods wireless transceiver 22 and control part 23 are built in to other than main body 21 in order to do in automatic, to this weighing inspection equipment 20.

[0026]

wireless transceiver 22 being something which corresponds to second wireless transceiver 11b of the portable wireless terminal 11, infrared light (IrDA etc) or with radio wave (Bluetooth etc) does transfer of information between second wireless transceiver 11b.

[0027]

In control part 23, watching operating state □ of main body 21, namely transport state and sensor or other operating state of goods when fault is detected with the fault detection means 23a and fault detection means 23a which detect fault, notification means 23b which reports occurrence of fault to periphery with sound and lamp and, When fault is detected with fault detection means 23a, electronic mail information of predetermined mail address addressee which displays fault site and abnormal state etc with character is formed, through wireless transceiver 22, fault notification mail signal transmission means 23c which is transmitted to portable wireless terminal 11 is provided.

□0028□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□10□□□□□□□□□□  
 □□□□□□□□20□□□□□□□□□□  
 □□□□□□□□□□□□□□□□11□□  
 □□□□□□□□3□□□□□□4□□□□  
 □□□□□□2□□□□□□□□□□□□  
 □1□□□□□□□□□□10□□□□□□□

□0029□

□□□□□□□□□□□□20□□□□□2  
 □□□□□□□□□□□□□□□□

□0030□

□□□□□□20□□□□□□□□□□□□  
 □□□□□□□□□□□□11□□□□□□□  
 □□□20□□□□□□□□□□□□□□□  
 □11□□□□□□□□20□□□□□□□□□  
 □□□□□□□□□□□□□□□□11□□□  
 □□□□□□□□□□□□□□□□□(S1)  
 □

□0031□

□□□□□□□□20□□□□□□□□□□□  
 □23a□□□□□□□□□□□□□□□□  
 □□□23b□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □23c□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□11□□□□□□□(S2~S4)  
 )□

□0032□

□□□□□□□□20□□□□□□□□□□□  
 □□□□□□□□□3□□□□□□□□□□  
 □□□□□□□□□□□□□□□4□□□□  
 □□□□2□□□□□□□□□□□□□□□  
 □□□□10□□□□□□□□□□□□□□□  
 □□1(□□□□□□)□□□□□□□□□□  
 □□□1□□□□□□□□□10□□□□□□  
 □□□□□□□□□□□□□□□(S5)□

□0033□

□□□□□□□□□□□□□□□10□□□□□  
 □□□□□□1□□□□□□□□□□□□□  
 □□□□□□□□□□□(S6)□

□0034□

□□□□□□□□□□□□□□□□□□□□

[0028]

Furthermore, as for this mail address, with mail address of information processing device 10 of the service post, as for electronic mail information for fault notification which is outputted from weighing inspection equipment 20, through mobile radio service network 3 and server 4 from the portable wireless terminal 11, it is outputted to Internet 2, through server 1 of the provider, it is notified to information processing device 10.

[0029]

Next, operation of weighing inspection equipment 20 which was inscribed is explained on the basis of flowchart of Figure 2.

[0030]

On manufacturing line side where weighing inspection equipment 20 is installed, portable wireless terminal 11 as, portable wireless terminal 11 and link between weighing inspection equipment 20 are formed in every position of vicinity of weighing inspection equipment 20 which is in midst of working, portable wireless terminal 11 is set to state whose transmission of electronic mail is possible, (S1 ).

[0031]

When while working this weighing inspection equipment 20, operation fault is detected with fault detection means 23a, as occurrence of fault is reported to periphery with notification means 23b, electronic mail information of predetermined mail address addressee which with fault notification mail signal transmission means 23c shows fault site and abnormal state etc with character being formed, through wireless transceiver 22, it is transmitted to portable wireless terminal 11 (S2~S4 ).

[0032]

electronic mail information from this weighing inspection equipment 20 was sent by mobile radio service network 3, with analysis of the mail address with server 4 going by way of was outputted in Internet 2, was written inside server 1 (mail server ) of provider where information processing device 10 of service post is connected, electronic mail reached from server 1 vis-a-vis the information processing device 10 it is notified (S5 ).

[0033]

operator of information processing device 10 which receives this notification, it receives electronic mail from server 1 and indicates in display (S6 ).

[0034]

By fact that electronic mail which is indicated in information

10□□□□□□□□□□□□□□□□□□  
 □□□□□□□□10□□□□□□□□□□  
 □□20□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□

□0035□

□□□□□□□□□□□□□□□□20□□  
 □□□□□□□□□□□□□□□□□□  
 □□3□□□□□□□□□□□□20□□  
 □□□□□□□□□□□□□□□□20□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□20□□□□□□□□  
 □□□□□□□□□□□□□□□□□□

□0036□

□□□□□□□□□□□□□□□□2□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□20□□□□□□□□11  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□

□□□□□□□□□□2□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□

□0037□

□□□□□□□□□□□□□□□□PHS□  
 □□□□□□□□□□□□□□□□11□□□□  
 □□□□□□20□□□□□□□□□□□□  
 □□10□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□

□0038□

□□□□□□□□□□20□□□□□□□□□□11  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□20□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□

□0039□

□□□□□□□□

□□□□□□□□□□□□□□□□□□□□

processing device 10 of the service post this way is verified, grasps occurrence and its detailed information of operation fault of weighing inspection equipment 20 accurately be able to do operator of information processing device 10, if it is necessary, communicating on production run I side, it conveys precise coping method, it is possible.

[0035]

Furthermore, here, you explained concerning method which notifies occurrence of fault of weighing inspection equipment 20 of single platform, but as shown in Figure 3, if even with when weighing inspection equipment 20 is a plural stand, portable wireless terminal 11 is arranged respectively in vicinity of each weighing inspection equipment 20, occurrence of fault of weighing inspection equipment 20 of plural can be notified description above in same way.

[0036]

In addition, as before inscribed, through Internet 2, with system which notifies fault occurrence with electronic mail, if it is installed in the region to which weighing inspection equipment 20 can receive internet connection service of portable wireless terminal 11, description above fault occurrence can be notified in same way.

Furthermore, because protocol for electronic mail which is used for the common with Internet 2 can be utilized, communication protocol of dedicated becomes unnecessary, there is a benefit that construction expense of system barely may be little and.

[0037]

In addition, as inscribed, making use of existing portable wireless terminal 11 like mobile terminal and PHS, because from weighing inspection equipment 20 fault occurrence is notified to information processing device 10 of service post, necessity to increase wired telephone line anew is gone, is not either a adverse effect to line environment with pulling turning of cable.

[0038]

In addition, because weighing inspection equipment 20 does communication with portable wireless terminal 11 and infrared light and radio wave, entrance discharge portion of communication wave planarization it is possible without necessary for entrance discharge of that communication wave to provide relief in outer surface of weighing inspection equipment 20, washes and disinfection strictly it is possible, can prevent the propagation of germs securely.

[0039]

[Effects of the Invention]

As above explained, as for device which does weighing or

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□(23a)□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□1□□□□□□□(11a)□□□□□□□□  
 □□□□□□□□□□□□□□□□2□□□□  
 □□□(11b)□□□□□□□□1□□□□□□□□  
 □□2□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□(11)□□□□□□□□2□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□(22)□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □(23c)□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□  
 □□□□(10)□□□□□□□□□□□□□□□□

□0040□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □

□0041□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□

□□□□□□□□□□

□□□□

□□□□□□□□□□□□□□□□

□□□□

□□□□□□□□□□□□□□□□□□  
 □□□□□

□□□□

□□□□□□□□□□□□□□□□□□  
 □□□□□□□□□□□□□□

the inspection for goods of this invention, fault detection means which detects the fault of operation of aforementioned weighing or operation of inspection in device which does weighing or inspection for the goods, (23 a) with, first wireless transceiver in order between base station of mobile radio service network to do communication with radio wave (11 a) with it possesses second wireless transceiver (11 b) in order to do communication with other equipment and wireless of vicinity and through the aforementioned second wireless transceiver, vis-a-vis portable wireless terminal (11) whose relay of information is possible aforementioned first wireless transceiver and between second wireless transceiver, wireless transceiver where communication is possible (22) with, When operation fault is detected with aforementioned fault detection means, forming electronic mail information for fault occurrence notification of predetermined mail address addressee, be able to provide fault notification mail signal transmission means (23 c) which it transmits to the aforementioned portable wireless terminal from aforementioned wireless transceiver in the internal, fault of weighing operation or inspection operation, It is connected by Internet and have tried to be able to notify to information processing device (10) which corresponds to aforementioned predetermined mail address.

[0040]

Because of this, when weighing of device and fault of operation of inspection occurs, fault occurrence and abnormal state etc can be notified to predetermined information processing device which is connected to Internet accurately and quickly.

[0041]

In addition, because existing portable wireless terminal is utilized, addition of wired telephone line becomes unnecessary, furthermore, you work washing and the disinfection with pulling turning of cable without either adverse effect to line environment, securely, is possible.

[Brief Explanation of the Drawing(s)]

[Figure 1]

overall configuration diagram of form of execution of this invention

[Figure 2]

flowchart which shows one example of maintenance method of this invention

[Figure 3]

configuration diagram in order to explain operation when device which does weighing or inspection is a plural

□□□□□□

1

□□□

10

□□□□□□

11

□□□□□□□

11a

□1□□□□□□□

11b

□2□□□□□□□

2

□□□□□□

20

□□□□□□□□□□□□

21

□□□

22

□□□□□□

23

□□□

23a

□□□□□□

23b

□□□□

23c

□□□□□□□□□□□□

3

□□□□□□□□□□

4

□□□

5

□□□

**Drawings**

□□□□

**[Explanation of Symbols in Drawings]**

1

server

10

information processing device

11

Portable wireless terminal

11 a

first wireless transceiver

11 b

second wireless transceiver

2

Internet

20

device which does weighing or inspection

21

main body

22

wireless transceiver

23

control part

23 a

fault detection means

23 b

notification means

23 c

fault notification mail signal transmission means

3

mobile radio service network

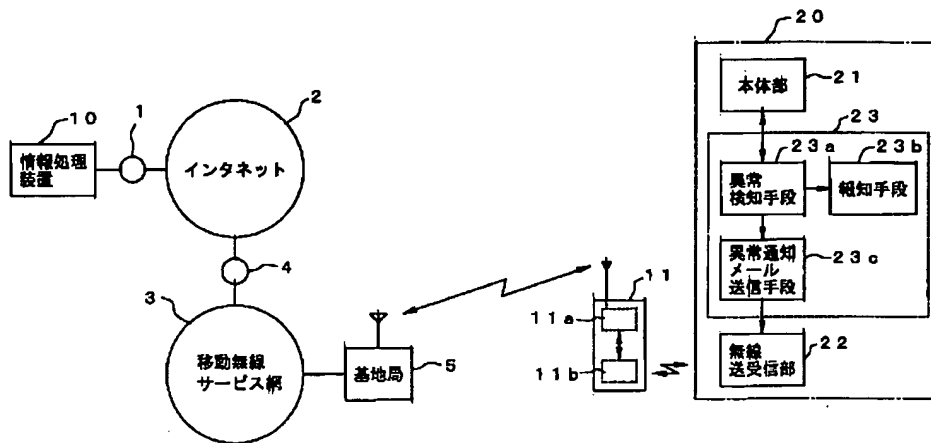
4

server

5

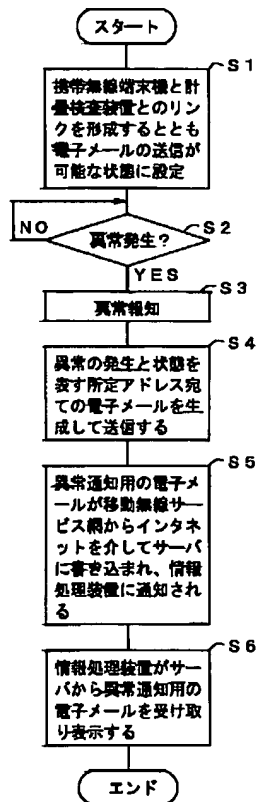
base station

[Figure 1]



□□□□

[Figure 2]



□□□□

[Figure 3]

